

Name: \_\_\_\_\_ Obj (5.8): \_\_\_\_\_

Teacher: \_\_\_\_\_

Algebra Pd: \_\_\_\_\_

Day

Month

Year

Do Now:

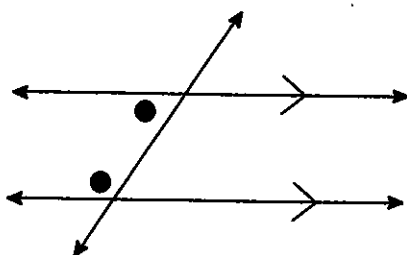
1.  $5(4s - 3) = -5s + 10$

2.  $3(7r - 11) - 4(5 - 4r) = 7r + 7$

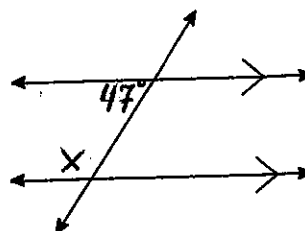
Notes: Parallel Lines with Transversals

A transversal is a line that intersects two or more other lines. When it intersects parallel lines, many angles are congruent. Figures, objects or angles are congruent if they have the same shape and size.

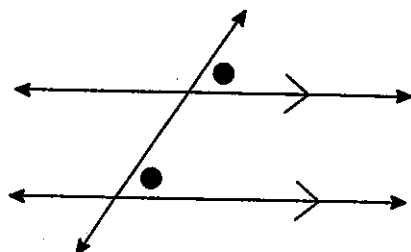
1. Same-side interior angles are interior angles on the same side of the transversal. Same-side interior angles are also supplementary.



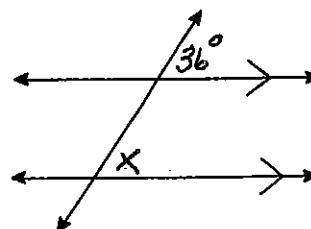
Example:



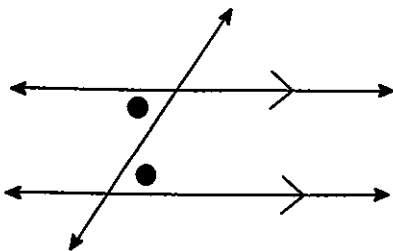
2. Corresponding angles have corresponding positions relative to the parallel lines. Corresponding angles are congruent.



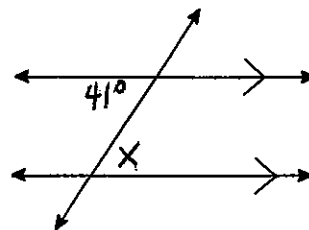
Example:



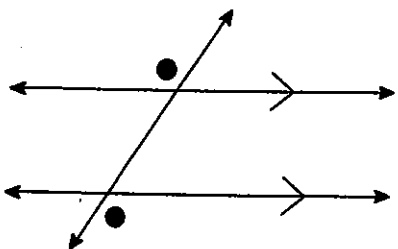
3. Alternate interior angles are non-adjacent angles that lie between the lines on opposite sides of the transversal. Alternate interior angles are congruent.



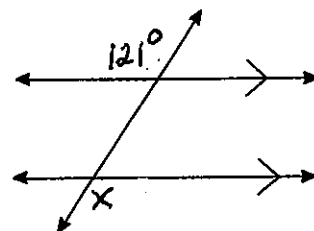
Example:



4. Alternate exterior angles are non-adjacent angles that lie outside the lines on opposite sides of the transversal. Alternate exterior angles are congruent.



Example:



Name : \_\_\_\_\_

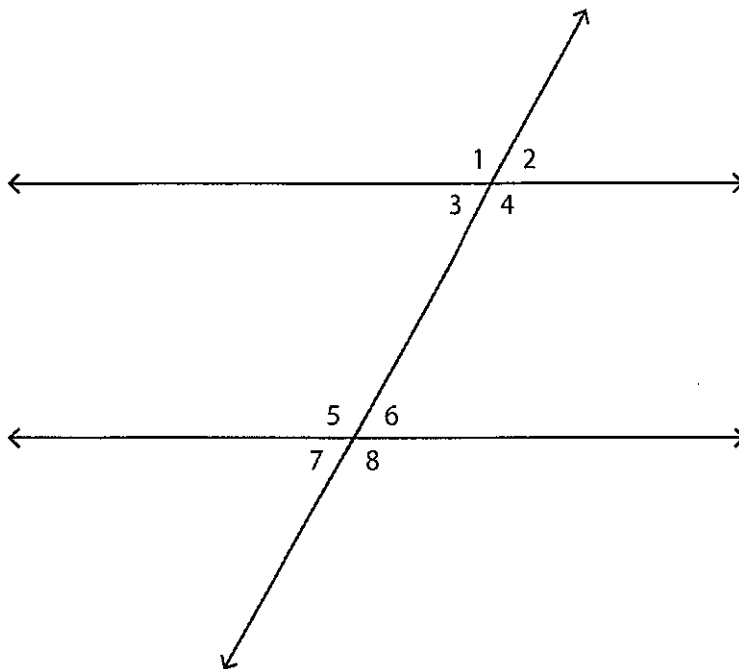
Score : \_\_\_\_\_

## Angle Relationship

Interior/Exterior: S1

5.8 Classwork

Write the angle relationship for each pair of angles.



- 1)  $\angle 1$  and  $\angle 8$  are \_\_\_\_\_
- 2)  $\angle 4$  and  $\angle 6$  are \_\_\_\_\_
- 3)  $\angle 3$  and  $\angle 5$  are \_\_\_\_\_
- 4)  $\angle 2$  and  $\angle 7$  are \_\_\_\_\_
- 5)  $\angle 3$  and  $\angle 6$  are \_\_\_\_\_
- 6)  $\angle 1$  and  $\angle 7$  are \_\_\_\_\_
- 7)  $\angle 4$  and  $\angle 5$  are \_\_\_\_\_
- 8)  $\angle 2$  and  $\angle 8$  are \_\_\_\_\_

Name : \_\_\_\_\_

Score : \_\_\_\_\_

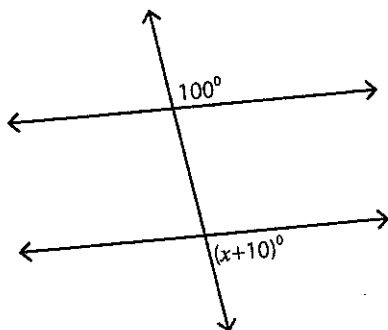
# Angles in Transversal

Moderate: S1

5.8 HW

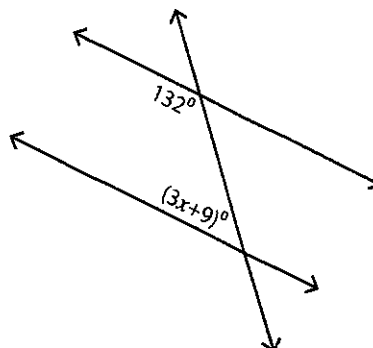
Find the value of  $x$ .

1)



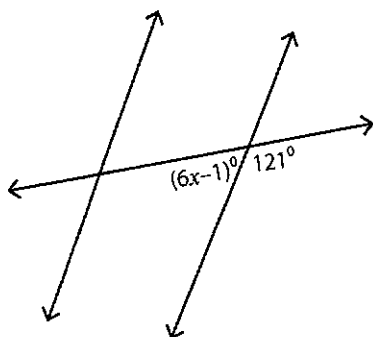
$x =$  \_\_\_\_\_

2)



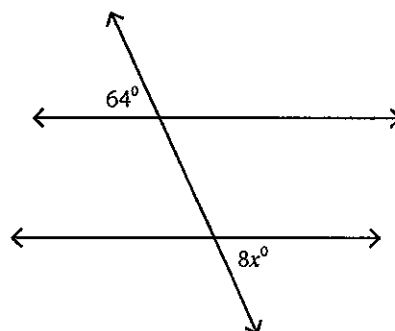
$x =$  \_\_\_\_\_

3)



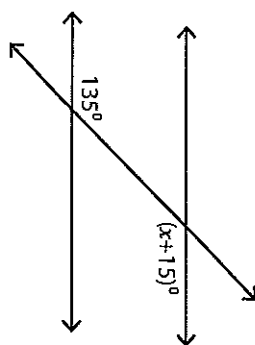
$x =$  \_\_\_\_\_

4)



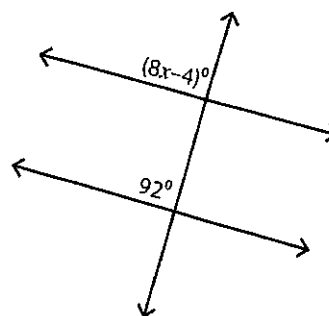
$x =$  \_\_\_\_\_

5)



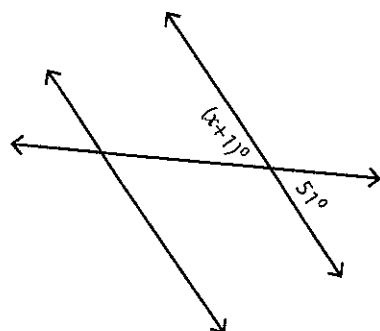
$x =$  \_\_\_\_\_

6)



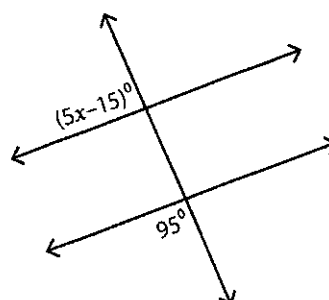
$x =$  \_\_\_\_\_

7)



$x =$  \_\_\_\_\_

8)



$x =$  \_\_\_\_\_